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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/668,719	09/23/2003	Jeffrey Daniel Williams	14270	2444
7590 02/26/2007 Sally J. Brown			EXAMINER	
AUTOLIV AS	SP, INC.		CULBRETH, ERIC D	
3350 Airport Road Ogden, UT 84405			ART UNIT	PAPER NUMBER
Oguen, or or	103		3616	
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SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
2 MONTUS		02/26/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)		
	10/668,719	WILLIAMS, JEFFREY DANIEL		
Office Action Summary	Examiner	Art Unit		
	Eric Culbreth	3616		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	1.  nely filed  the mailing date of this communication.  D (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on <u>16 Ja</u> This action is <b>FINAL</b> . 2b)⊠ This     Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
4) ⊠ Claim(s) 1-39 is/are pending in the application. 4a) Of the above claim(s) 28-39 is/are withdraw 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-27 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	n from consideration.			
Application Papers				
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 11.	epted or b) objected to by the I drawing(s) be held in abeyance. Sec ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>				
Attachment(s)				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D  5) Notice of Informal F  6) Other:	ate		

## **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

- 1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 2. Claims 1, 4-6, 8-11, 14-16 and 18-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rose US006588793B2 (newly cited) in view of Spencer et al US005687987, of record.

Rose discloses an airbag module comprising an inflator 26, an airbag cushion with a cushion throat, windshield face, occupant face, inboard face and outboard face (Figure 1B), and a one-piece clamshell diffuser 64 forming an inflator housing (note Figure 4, the left end of diffuser 64, where the sleeve is one piece). The housing forms an inflator sleeve that receives and closes about the inflator in Figure 4. Spencer et al discloses a diffuser sleeve 83 on inflator sleeve 82, the diffuser sleeve formed of first and second sleeve walls 84. The outlet port(s) 44 of the inflator 40 extends into the inflator sleeve 83 such that the diffuser sleeve directs inflation gas produced by the inflator. It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Rose to include a diffuser sleeve with first and second sleeve walls such as taught by Spencer et al in order to allow the diffuser to direct gas (see Rose, the primary reference, at column 11, lines 14-17, where the primary reference teaches the diffuser may be used to direct gas). In the combination the sleeve walls would contact each other on the interior of the cushion in keeping with

Rose's diffuser walls (claims 1 and 11). The cushion throat of Rose is configured to be coupled to the inflator housing (i.e., when guideposts 76 attach the airbag to the housing 83 by blocking it)(claims 4 and 14). In the combination Spencer et al teaches the inflator housing having cushion attachments (88, pegs 90) (claims 5-6 and 15-16). The diffuser sleeve in the combination is formed by closing the clamshell inflator housing, and fasteners 76 in Rose et al maintain the clamshell housing in a closed position (claims 8-9 and 18-19). Regarding claims 10 and 20, the method of folding is an intermediate process step which is immaterial to the final module product; Rose discloses the structure as claimed.

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3. Claims 2-3, 12-13 and 21-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rose in view of Spencer et al as applied to claims 1 and 11 above, and further in view of Taguchi et al US005951038A, of record.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Rose and Spencer et al above to include loop diffuser comprising a secondary sleeve internal of the cushion throat having at least one diffuser orifice as taught by Taguchi et al's inner bag 22 in order to direct gas as desired, upward and downward as disclosed in Taguchi et al's abstract. The loop diffuser in the combination has a windshield facing panel and occupant facing panel attached to form a closed sleeve (Figure 2B), with each panel having a diffuser orifice 22b, 22a in Figure 3.

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## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eric Culbreth whose telephone number is 571/272-6668. The examiner can normally be reached on Monday-Thursday, 9:00-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Dickson can be reached on 571/272-6669. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Eric Culbreth
Primary Examiner
Art Unit 3616